BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 20.00Lakhs

Name of Work:-Improvements of drains Doddabettahalli Layout in Ward No-03.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no141, PWD SR 2016-17)	Cum							
	Desilting of drains:-Cross Road		2	170.00	0.45	0.35	53.55		
	Berm cutting and over burden earth cutting		2	170.00	0.55	0.15	28.05		
	Narayana Gowdru Layout Entrace Road		2	25.00	0.75	0.20	7.50		
			2	135.00	0.65	0.15	26.33		
							115.43	**96.48**	**11136.00**
	Basic Rate	82.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	9.02							
		91.02							
	Area Weightage @ 6%	5.46							
	Total	**96.48**							
2	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)	sqm							
			2	170.00	1.35		459.00		
							459.00		
		Deduct 25%of Missing slabs qty					114.75		
							344.25	**72.95**	**25113.00**
	Basic Rate	62.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	6.82							
		68.82							
	Area Weightage @ 6%	4.13							
	Total	**72.95**							
3	Refixing stone slabs of drains and pointing in CM(1:3)(P.No 25 I.No 5.33)	Sqm							
			Vide Item No. 2				**344.25**	**89.42**	**30783.00**
	Basic Rate	76.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	8.36							
		84.36							
	Area Weightage @ 6%	5.06							
	Total	**89.42**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick(P.No 25 I.No 5.31.1)	sqm							

670 32_00

		25%of Missing slabs qty					114.75	738.90	84789.00
	Basic Rate	628.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	69.08							
		697.08							
	Area Weightage @ 6%	41.82							
	Total	**738.90**							
5	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no142, PWD SR 2016-17)	Cum							
	Culvert		3	7.50	1.10	0.70	17.33		
							17.33	**96.48**	**1672.00**
	Basic Rate	82.00							
	Add 11% AD-HOC over SR 2016-2017	9.02							
		91.02							
	Area Weightage @ 6%	5.46							
	Total	**96.48**							
6	KKSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no142, PWD SR 2016-17)	Cum							
	(Page No 143, I.No 19.14 oF KPWD S R 2016-17)								
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00	0.15	26.25		
			1	140.00	6.80	0.20	190.40		
	Cross Road		1	170.00	2.00	0.15	51.00		
							267.65	96.48	**25823.00**
	Basic Rate	82.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	9.02							
		91.02							
	Area Weightage @ 6%	5.46							
	Total	**96.48**							

179316-00

7	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/sand/kanker/Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2016-17)	Cum							
			Vide Item No. (1+5+6)				400.40	110.13	44096.00
	Basic Rate	68.00							
	Haulage for 8KM lead SRp-140(2.5*1.28*8)	25.60							
	Total	93.60							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	10.30							
	Total	103.90							
	Area Weightage @ 6%	6.23							
	Total	**110.13**							
8	KSRRB M2100 PCC 1 KSRRB M2100-10. Plain cement concrete M10 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 (P No. 218/27.18)	Cum							
	Culvert		3	7.50	1.00	0.12	2.70		
							2.70	6628.96	17898.00
	Basic Rate	5634.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	619.74							
		6253.74							
	Area Weightage @ 6%	375.22							
	Total	**6628.96**							
9	KSRRB M2100 -15.1 KSRRB M2100-14. Plain /Reinforcement cement concrete M20 with OPC cement @ 320kgs, with crushed 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisisser @ 3ltr conforming to IS 9103-1999 Reaffirmed-2008 in open foundation complete as per specifications (P No. 218/27.26)	Cum							
	Culvert bottom		3	7.50	1.00	0.20	4.50		
	Side walls	3	6	7.50	0.20	0.60	5.40		
	Deck slab		3	7.50	1.00	0.20	4.50		

241310-

	Approach concrete		6	7.50	0.45	0.10	2.03		
							16.43	7356.10	120824.00
	Basic Rate	6252.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	687.72							
		6939.72							
	Area Weightage @ 6%	416.38							
	Total	**7356.10**							
10	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe55 0(pwd sr2016-17,p.no17,s.no4.46)	Tonne,s							
	0.09 tonne,s / cum						1.30	66714.40	86462.00
	Basic Rate	56701.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	6237.11							
		62938.11							
	Area Weightage @ 6%	3776.29							
	Total	**66714.40**							
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2 (pwd sr2016-17 p.no15/4.31)	Sqm							
	Side walls		12	7.50		0.80	72.00		
	Deck slab		3	7.50	0.60		13.50		
							85.50	344.74	29476.00
	Basic Rate	293.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	32.23							
		325.23							
	Area Weightage @ 6%	19.51							
	Total	**344.74**							

478072-

12	KSRRBM400-17,Providing, laying, spreading andcompacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site,laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired dencity complete as per specifications.MORTH Specification No.406(Item no20.18,Page no157 ,PWD SR 2016-17)	Cum							
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00	0.15	26.25		
			1	140.00	6.00	0.20	168.00		
	Cross Road		1	170.00	1.50	0.20	51.00		
							245.25	**1962.57**	**481320.00**
	Basic Rate	1668.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	183.48							
		1851.48							
	Area Weightage @ 6%	111.09							
	Total	**1962.57**							
13	KSRRB M500-6,Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH Specifications No502 (ITEMNO21.6,Page no157,PWD SR 2016-17)	Sqm							
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00		175.00		
			1	140.00	6.00		840.00		
	Cross Road		1	170.00	1.50		255.00		
							1270.00	**30.59**	**38851.00**
	Basic Rate	26.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	2.86							
		28.86							
	Area Weightage @ 6%	1.73							
	Total	**30.59**							

988243-

14	KSRRB M500-17. Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.7 complete in all respects as per specifications. Bitumen 80/100	Cum							
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00	0.050	8.75		
			1	140.00	6.00	0.050	42.00		
	Cross Road		1	170.00	1.50	0.050	12.75		
							63.50	**7143.14**	**453589.00**
	Basic Rate	6071.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	667.81							
		6738.81							
	Area Weightage @ 6%	404.33							
	Total	**7143.14**							
15	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5	Sqm							
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00		175.00		
			1	140.00	6.00		840.00		
	Cross Road		1	170.00	1.50		255.00		
							1270.00	**12.94**	**16437.00**
	Basic Rate	11.00							
	Add 11% AD-HOC over SR 2016-2017 BasicRates	1.21							
		12.21							
	Area Weightage @ 6%	0.73							
	Total	**12.94**							

1468269-

16	KSRRB M500-19: Providing and laying bituminous concrete 40mm thick with 100/120 PH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, No.165 Item No. 21.22.2.PWD SR 2016-17	Cum							
	Narayana Gowdru Layout Entrace Road		1	25.00	7.00	0.030	5.25		
			1	140.00	6.00	0.030	25.20		
	Cross Road		1	170.00	6.50	0.030	33.15		
							63.60	8316.21	528911.00
	Basic Rate	7068.00							
	Add 11% AD-HOC over SR 2016-2017	777.48							
		7845.48							
	Area Weightage @ 6%	470.73							
	Total	**8316.21**							
17	Miscellaneous charges	L/S							2820.00
								Total RS	**2000000.00**
(Rupees Twenty lakh only)									

Certificate

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2017-18
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

1997180-00

2000000/-

Assistant Engineer
Ward no: 03

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Approval
Accorded For Rs. 20.00 Lac
Head of A/C P.1771-17-18
CER NO: 284 Dt: 08.02.18

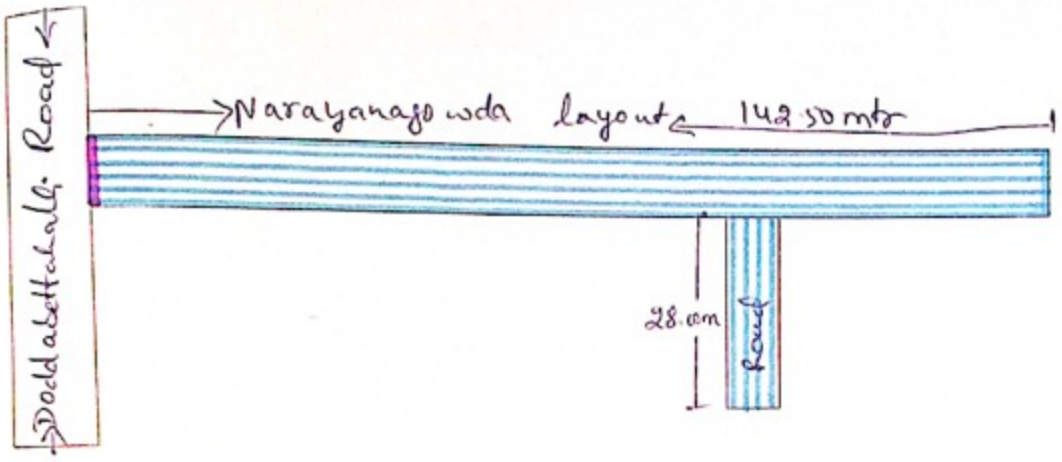
TA

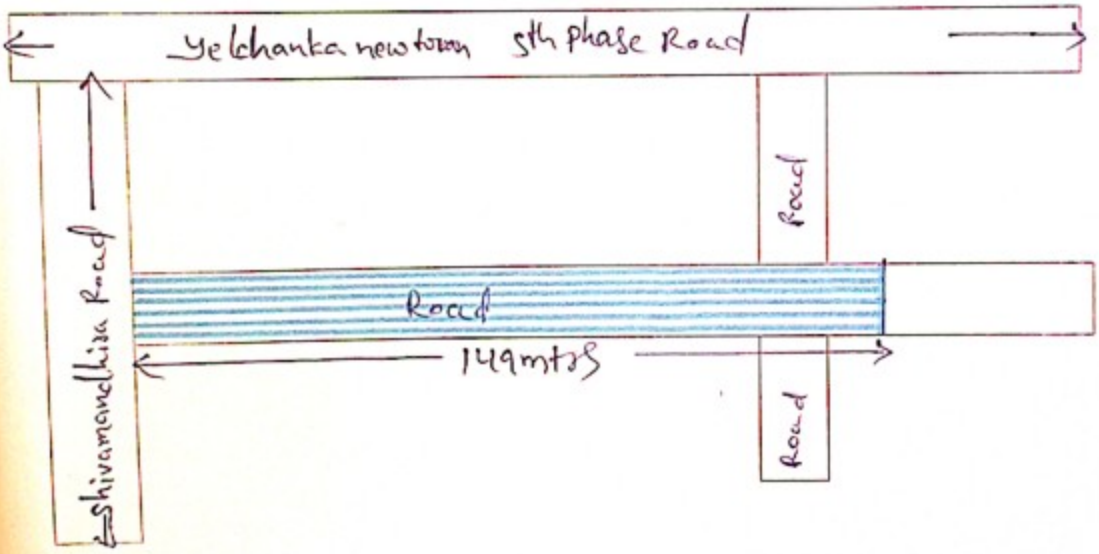
EE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakhs
Rupees Twenty Lakhs
Only
Under P.1771-2017-18
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. 191
Dt. EE/YNK/TS/AG/17-18
Dated 16-02-2018 Estimate / Sanctioned Rs. 20.00 Lac

Executive Engineer

Name of work : Improvements of drains at Doddabettahalli layout in ward no-03.





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